MITANN ZIP-CHEM PRODUCTS DIV OF ANDPAK -- D-5460 MOLY DRY LUBE CODE 63 1078 - LUBRIC

MATERIAL SAFETY DATA SHEET

NSN: 9150010572576

Manufacturer's CAGE: 8E913

Part No. Indicator: B

Part Number/Trade Name: D-5460 MOLY DRY LUBE CODE 63 1078

General Information

Item Name: LUBRICANT, SOLID FILM

Company's Name: MITANN INC ZIP-CHEM PRODUCTS INC DIV OF ANDPAK INC

Company's Street: 1860 DOBBIN DR

Company's City: SAN JOSE Company's State: CA Company's Country: US Company's Zip Code: 95133

Record No. For Safety Entry: 003 Tot Safety Entries This Stk#: 006

Status: SM

Date MSDS Prepared: 20AUG90 Safety Data Review Date: 08FEB93

Supply Item Manager: CX

MSDS Preparer's Name: DEAN DARWIN

MSDS Serial Number: BPXFW Hazard Characteristic Code: J7

Unit Of Issue: CN

Unit Of Issue Container Qty: 16.0 0Z

Type Of Container: CAN
Net Unit Weight: 16.0 OZ

Ingredients/Identity Information

Proprietary: NO

Ingredient: METHYL CHLOROFORM (1, 1, 1-TRICHLOROEHANE) (SARA III)

Ingredient Sequence Number: 01

Percent: 40 %

NIOSH (RTECS) Number: KJ2975000

CAS Number: 71-55-6

OSHA PEL: 350 PPM/450 STEL ACGIH TLV: 350 PPM/450STEL; 9192

Other Recommended Limit: NONE SPECIFIED

Proprietary: NO

Ingredient: XYLENES (0-, M-, P- ISOMERS) (SARA III)

Ingredient Sequence Number: 02

Percent: 1 %

NIOSH (RTECS) Number: ZE2100000

CAS Number: 1330-20-7 OSHA PEL: 100 PPM/150 STEL ACGIH TLV: 100 PPM/150STEL; 9192

Other Recommended Limit: NONE SPECIFIED

Proprietary: NO

Ingredient: MOLYBDENUM DISULFIDE Ingredient Sequence Number: 03

Percent: <5.0

NIOSH (RTECS) Number: QA4697000

CAS Number: 1317-33-5 OSHA PEL: NOT ESTABLISHED ACGIH TLV: NOT ESTABLISHED

Other Recommended Limit: 15 MG/M3 PEL

Proprietary: NO

Ingredient: DIETHYLENE GLYCOL MONOETHYL ETHER

Ingredient Sequence Number: 04

Percent: 0.17 %

NIOSH (RTECS) Number: KK8750000

CAS Number: 111-90-0
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
Other Recommended Limit: 25 PPM

Proprietary: NO

Ingredient: HEXYLENE GLYCOL Ingredient Sequence Number: 05

Percent: <0.5

NIOSH (RTECS) Number: SA0810000

CAS Number: 107-41-5 OSHA PEL: C 25 PPM

ACGIH TLV: C 25 PPM; 9192

Other Recommended Limit: NONE SPECIFIED

Proprietary: NO

Ingredient: PROPYLENE GLYCOL MONOMETHYL ETHER

Ingredient Sequence Number: 06

Percent: <0.5

NIOSH (RTECS) Number: UB7700000

CAS Number: 107-98-2

OSHA PEL: 100 PPM/150 STEL ACGIH TLV: 100 PPM/150STEL; 9192

Other Recommended Limit: NONE SPECIFIED

Proprietary: NO

Ingredient: 1, 1, 2-TRICHLORO-1, 2, 2-TRIFLUOROETHANE (FREON 113) (SARA III)

Ingredient Sequence Number: 07

Percent: 35 %

NIOSH (RTECS) Number: KJ4000000

CAS Number: 76-13-1

OSHA PEL: 1000PPM/1250STEL

ACGIH TLV: 1000PPM/1250STEL9293

Other Recommended Limit: NONE SPECIFIED

Proprietary: NO

Ingredient: CHLORODIFLUOROMETHANE Ingredient Sequence Number: 08

Percent: 20 %

NIOSH (RTECS) Number: PA6390000

CAS Number: 75-45-6 OSHA PEL: 1000 PPM ACGIH TLV: 1000PPM; 9293

Other Recommended Limit: NONE SPECIFIED

Physical/Chemical Characteristics

Appearance And Odor: DARK LIQUID WITH IRRITATING ODOR AT HIGH

CONCENTRATION

Vapor Density (Air=1): >1.0

Specific Gravity: 1.4

Decomposition Temperature: UNKNOWN

Evaporation Rate And Ref: FASTER THAN ETHER

Solubility In Water: NEGLIGIBLE Corrosion Rate (IPY): UNKNOWN

Fire and Explosion Hazard Data

Flash Point: NONE AEROSOL Lower Explosive Limit: 1.0 Upper Explosive Limit: 15.0

 $Extingui\, shing\,\, Medi\, a; \,\, USE\,\, FOAM, \,\,\, ALCOHOL\,\, FOAM, \,\,\, CARBON\,\,\, DI\, OXI\, DE, \,\,\, DRY\,\,\, CHEMI\, CAL, \\$

WATER FOG

Special Fire Fighting Proc: WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire And Expl Hazrds: CONTAINERS MAY EXPLODE; COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS. VAPORS MAY DEVELOP A FLAMMABLE ATMOSPHERE.

Reactivity Data

Stability: YES

Cond To Avoid (Stability): HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION

Materials To Avoid: WATER-LONGTERM WILL PRODUCE CORROSIVE ACIDS. AVOID PROLONGED CONTACT WITH OR STORAE IN ALUMINUM OR ITS ALLOYS.

Hazardous Decomp Products: HYDROGEN CHLORIDE AND VERY SMALL AMOUNTS OF PHOSGENE AND CHLORINE.

Hazardous Poly Occur: NO

Conditions To Avoid (Poly): NONE. WILL NOT OCCUR.

Health Hazard Data

 $\begin{tabular}{ll} \textbf{Route Of Entry - Inhalation: YES} \\ \end{tabular}$

Route Of Entry - Skin: YES

Route Of Entry - Ingestion: YES

Health Haz Acute And Chronic: ACUTE: IRRITATION OF EYES, SKIN, RESPIRATORY OR G. I. TRACTS; CNS EFFECTS LIKE HEADACHE, DIZZINESS, NAUSEA AND VOMITING. REDNESS OR BURNS OF EYES/SKIN POSSIBLE. CHRONIC: DRYING OF SKIN, DEFATTING OR DERMATITIS, DAMAGE TO LUNGS, EYES OR CARDIAC IRREGULARITIES.

Carcinogenicity - NTP: YES Carcinogenicity - IARC: YES

Carcinogenicity - OSHA: YES

Explanation Carcinogenicity: DATA PER MSDS

Signs/Symptoms of Overexp: MAY CAUSE IRRITATION OF EYES, SKIN, RESPIRATORY OR G. I. TRACTS; MAY CAUSE HEADACHE, DIZZINESS, NAUSEA, VOMITING OR GI TRACT DISTURBANCES POSSIBLE. BURNS OR REDNESS OF EYES/CRACKING OR DRYNESS OF SKIN. Med Cond Aggravated By Exp: PERSONS WITH A HISTORY OF AILMENTS OR WITH A PRE-EXISTING DISEASE INVOLVING THE EYES, SKIN, OR RESPIRATORY TRACT MAY BE AT INCREASED RISK FROM EXPOSURE.

Emergency/First Aid Proc: INHALATION: REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING. GET MEDICAL ATTENTION. EYES: IMMEDIATELY FLUSH WITH PLENTY OF

REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL ADVICE. INGESTION: DO NOT INDUCE VOMITING. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. GET IMMEDIATE MEDICAL ATTENTION.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: USE PROPER PERSONAL PROTECTION; VENTILATE THE AREA. CONTAIN FREE MATERIAL IF POSSIBLE; USE SUITABLE INERT ABSORBENT MATERIAL AND RECOVER FOR PROPER DISPOSAL IN AN APPROVED CONTAINER. Neutralizing Agent: NOT APPLICABLE.

Waste Disposal Method: CONSULT LOCAL AUTHORITIES. DISPOSAL MUST BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

Precautions-Handling/Storing: STORE IN A COOL, DRY, WELL VENTILATED AREA. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. PROTECT CONTAINERS FROM PHYSICAL DAMAGE.

Other Precautions: DO NOT TAKE INTERNALLY. DO NOT BREATHE MIST. AVOID PROLONGED OR REPEATED BREATHING OF VAPOR. AVOID CONTACT WITH EYES. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING.

Control Measures

Respiratory Protection: USE NIOSH/MSHA APPROVED RESPIRATOR AS REQUIRED IF ABOVE PEL/TLV OR SCBA IN AN ENCLOSED AREA.

Ventilation: LOCAL/GENERAL TO MAINTAIN PEL/TLV.

Protective Gloves: NEOPRENE, NITRILE, OR NATURAL RUBBER Eye Protection: SAFETY GOGGLES WITH OPTIONAL FACE SHIELD

Other Protective Equipment: EYE WASH STATION AND SAFETY SHOWER, WORK CLOTHING AND APRON AS REQUIRED.

Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR. Suppl. Safety & Health Data: AVOID PROLONGED OR REPEATED EXPOSURE. DO NOT GET ON SKIN OR IN EYES. DO NOT BREATHE VAPORS OR MISTS.

Transportation Data

Trans Data Review Date: 93039

DOT PSN Code: DTJ

DOT Symbol: D

DOT Proper Shipping Name: CONSUMER COMMODITY

DOT Class: ORM-D DOT Label: NONE IMO PSN Code: AIY

IMD Proper Shipping Name: AEROSOL DISPENSERS

IMO Regulations Page Number: 9022

IMO UN Number: 1950 IMO UN Class: 9

IMO Subsidiary Risk Label: -

IATA PSN Code: ANB IATA UN ID Number: 1950

IATA Proper Shipping Name: AEROSOLS, 20, *

IATA UN Class: 2.2

IATA Label: NON-FLAMMABLE GAS

AFI PSN Code: ANB

AFI Prop. Shipping Name: AEROSOLS, NON-FLAMMABLE, N.O.S.

AFI Class: 2.2

AFI ID Number: UN1950

AFI Basic Pac Ref: 6-6

Disposal Data

Label Data

Label Required: YES

Technical Review Date: 08FEB93

MFR Label Number: NONE

Label Status: F

Common Name: D-5460 MOLY DRY LUBE; PRODUCT CODE: 63-1078

Chronic Hazard: NO Signal Word: WARNING!

Acute Health Hazard-Slight: X Contact Hazard-Moderate: X

Fire Hazard-None: X

Reactivity Hazard-None: X

Special Hazard Precautions: VAPORS MAY CAUSE DIZZINESS OR SUFFOCATION. CONTACT WITH LIQUID MAY CAUSE FROSTBITE. FIRE MAY PRODUCE IRRITATING OR POISONOUS GASES. FIRST AID: INHALATION: REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING. GET MEDICAL ATTENTION. EYES: IMMEDIATELY FLUSH WITH PLENTY OF REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL ADVICE. INGESTION: DO NOT INDUCE VOMITING. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. GET IMMEDIATE MEDICAL ATTENTION.

Protect Eye: Y Protect Skin: Y

Protect Respiratory: Y

Label Name: ZIP-CHEM PRODUCTS INC DIV OF ANDPAK INC

Label Street: 1860 DOBBIN DR

Label City: SAN JOSE

Label State: CA

Label Zip Code: 95133 Label Country: US

Label Emergency Number: 800-424-9300; 408-729-0291

Year Procured: 1993